

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the present application.

1-36 (canceled)

37. (previously presented) A product comprising:
a substrate having a strain point or a melting point temperature
between about 300°C and 700°C and
one or more carbon nanotubes formed on and extending outwardly
from an outer surface of the substrate.

38-77 (canceled)

78. (currently amended) A field emission display comprising:
a baseplate having an electron emitting array positioned thereon, the
baseplate comprising a substrate and one or more free-standing graphitized carbon nanotubes
originating and extending outwardly from an outer surface of the substrate; and
a phosphor coated plate spaced apart from the baseplate so that
electrons emitted from the array impinge on the phosphor coating.

79-86 (canceled)

87. (currently amended) The A product according to claim 37 ~~1~~, wherein
the substrate comprises a catalyst.

88. (currently amended) The A product according to claim 87, wherein the
substrate includes a substrate layer and a continuous or non-continuous catalyst layer between
the substrate layer and the plurality of substantially aligned carbon nanotubes.

89. (currently amended) The A product according to claim 87, wherein the
substrate is formed of the catalyst.

90. (new) The product according to claim 37 wherein the one or more
carbon nanotubes are present at a density greater than 10^4 nanotubes per square millimeter of
substrate.

91. (new) The product according to claim 37, wherein the one or more carbon nanotubes extend outwardly from and substantially perpendicular to the substrate.

92. (new) The product according to claim 37, wherein the one or more carbon nanotubes extend outwardly from and at a non-perpendicular angle with respect to the substrate.

93. (new) The product according to claim 37, wherein the one or more carbon nanotubes are substantially parallel to the substrate.

94. (new) The product according to claim 37, wherein the one or more carbon nanotubes have a diameter between 4 to 500 nanometers.

95. (new) The product according to claim 37, wherein the one or more carbon nanotubes have a diameter of at least 50 nanometers.

96. (new) The product according to claim 37, wherein the substrate comprises glass, silica, quartz, silicon, iron, cobalt, nickel, an alloy of iron, cobalt, or nickel, platinum, a ceramic, or a combination thereof.

97. (new) The product according to claim 37, wherein the substrate is a glass plate.

98. (new) The product according to claim 87, wherein the catalyst is a metal or metal alloy and wherein substantially all carbon nanotubes have a cap distal from the substrate, the cap comprising the metal or metal alloy.

99. (new) The product according to claim 98, wherein the metal or metal alloy is iron, cobalt, nickel, or an alloy of iron, cobalt, or nickel.

100. (new) The product according to claim 99, wherein the metal or metal alloy is nickel.

101. (new) The product according to claim 37, further comprising a filling within the one or more carbon nanotubes.

102. (new) The product according to claim 101, wherein the filling is hydrogen, lithium ions, bismuth, lead telluride, or bismuth tritelluride.

103. (new) The product according to claim 101, wherein the filling is a pharmacological agent.

104. (new) The product according to claim 101, wherein the filling is enclosed within the carbon nanotubes.

105. (new) The product according to claim 101, wherein substantially all of the one or more carbon nanotubes have an open end.

106. (new) The product according to claim 37, wherein substantially all of the one or more carbon nanotubes have an open end.

107. (new) The product according to claim 37, wherein the one or more carbon nanotubes are present at a density no greater than 10^2 nanotubes per square millimeter of substrate.

108. (new) The product according to claim 37, wherein the one or more carbon nanotubes are graphitized carbon nanotubes.